

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-43. Cancelled

44. (Previously presented) A formulation (F) intended for use in an operation of rinsing (R) textile fiber articles (S) by means of an aqueous or aqueous-alcoholic medium (MR), said formulation (F) comprising at least one active substance (A) comprising at least one solid or liquid organic or organosilicon material in particulate form and a vehicle (V) comprising at least one organic polymer, capable of taking said active substance (A) to the surface of said textile fiber articles (S) in the rinsing operation (R), in the form:

of a stable dispersion, with a pH of from 2 to 5, of said active substance (A) in an aqueous or aqueous-alcoholic medium (MAV) comprising said vehicle (V), or in a solid form obtained by drying said dispersion,

the nature of the active substance (A), of the aqueous or aqueous-alcoholic medium (MAV), and of the vehicle (V) being such that the active substance (A) is insoluble in the medium (MAV),

has an overall zero or cationic charge in the medium (MAV),

is stabilized in the medium (MAV) by means of a cationic surfactant (TAC), it being possible for said cationic surfactant (TAC) to be wholly or partly replaced by a

nonionic surfactant when the material constituting the active substance (A) is intrinsically cationic or intrinsically potentially cationic in the medium (MAV), and remains insoluble in the rinsing medium (MR);

the vehicle (V):

is soluble or dispersible in the medium (MAV) and in the rinsing medium (MR), has an overall cationic or zero ionic charge in the medium (MAV), and at the pH of the rinsing operation in the rinsing medium (MR) is capable of developing anionic charges in sufficient quantity to destabilize the active substance (A) in the rinsing medium (MR).

45. (Previously presented) The formulation according to claim 44, wherein the rinsing medium (MR) has a pH of from 5.5 to 8.

46. (Previously presented) The formulation according to claim 44, wherein the material constituting the active substance (A) is an oil or a meltable solid.

47. (Previously presented) The formulation according to claim 44, wherein the particles of active substance (A) have an average diameter ranging from 10 nm to 200  $\mu\text{m}$ , preferably from 10 nm to 5  $\mu\text{m}$  and more preferably from 10 nm to 2 000 nm.

48. (Previously presented) The formulation according to claim 44, wherein the active substance (A) comprises material having lubricating properties with regard to textile fiber articles.

49. (Previously presented) The formulation according to claim 44, wherein the material constituting the active substance (A) is:

nonionic polyorganosiloxanes,

polyorganosiloxanes having at least one cationic or potentially cationic function in the medium (MAV),

amphoteric polyorganosiloxanes having at least one cationic or potentially cationic function in the medium (MAV) and at least one function which is neutral in the medium (MAV) and potentially anionic in the rinsing medium (MR), or

polyorganosiloxanes having at least one function which is neutral in the medium (MAV) and potentially anionic in the rinsing medium (MR).

50. (Previously presented) The formulation according to claim 49, wherein the material constituting the active substance (A) is an  $\alpha$ - $\omega$ -bis(hydroxy)polydimethylsiloxane, an  $\alpha$ - $\omega$ -bis-(trimethyl)polydimethylsiloxane, a polymethylphenylsiloxane or a cyclic polydimethylsiloxane, optionally in oil form.

51. (Previously presented) The formulation according to claim 49, wherein the material constituting the active substance (A) is an amino polyorganosiloxane.

52. (Previously presented) The formulation according to claim 51, wherein the amino polyorganosiloxane has hindered piperidyl groups.

53. (Previously presented) The formulation according to claim 49, wherein the polyorganosiloxane is linear.

54. (Previously presented) The formulation according to claim 44, wherein the active substance is:

mono-, di- or triglycerides of  $C_1$ - $C_{30}$  carboxylic acids or mixtures thereof,  
sugar esters, sucroglycerides,

C<sub>1</sub>-C<sub>30</sub> alcohol esters of C<sub>1</sub>-C<sub>30</sub> carboxylic, C<sub>1</sub>-C<sub>30</sub> alcohol esters of C<sub>2</sub>-C<sub>30</sub>

dicarboxylic acids,

ethylene or propylene glycol monoesters or diesters of C<sub>1</sub>-C<sub>30</sub> carboxylic acids,

propylene glycol C<sub>4</sub>-C<sub>20</sub> alkyl ethers,

di(C<sub>8</sub>-C<sub>30</sub> alkyl) ethers, or

organic waxes comprising alkyl chains containing 4 to 40 carbon atoms.

55. (Previously presented) The formulation according to claim 44, wherein the polymer constituting the active substance (A) and the surfactant (TAC) have a mass ratio of from 0.01 to 10.

56. (Previously presented) The formulation according to claim 44, wherein the cationic charges generated by the optional cationic or potentially cationic units of the material constituting the active substance (A) and by the cationic surfactant or surfactants at the surface of the material constituting the active active substance (A) in dispersion in the medium (MAV) are such that the zeta potential of said polymer or copolymer in dispersion in (MAV) is from 0 to +50 mV.

57. (Previously presented) The formulation according to claim 44, wherein the dispersion medium (MAV) for the active substance (A) is water or an aqueous-alcoholic polar medium.

58. (Previously presented) The formulation according to claim 57, wherein the alcohol or alcohols present in the aqueous-alcoholic polar medium represent up to 70% of the volume of the medium (MAV).

59. (Previously presented) The formulation according to claim 44, wherein the polymer constituting the vehicle (V) is any polymer which is soluble or dispersible in aqueous or aqueous-alcoholic medium with a pH of between 2 and 8 and which comprises at least one unit which is neutral in the medium (MAV) and potentially anionic (HA) in the rinsing medium (MR).

60. (Previously presented) The formulation according to claim 59, wherein the vehicle (V) polymer further comprises at least one unit which is cationic or potentially cationic (HC) in the medium (MAV) or at least one hydrophilic or hydrophobic nonionic unit.

61. (Previously presented) The formulation according to claim 44, wherein the various units of the polymer constituting the vehicle (V) present relative amounts which are such that in the medium (MAV) the overall charge of the polymer or copolymer is zero or cationic.

62. (Previously presented) The formulation according to claim 61, wherein the relative amounts of vehicle (V) polymer, surfactant (TAC), and material constituting the active substance (A) are such that in the course of the rinsing operation the number of anionic charges developed in the rinsing medium (MR) by the vehicle polymer (V) is sufficient to destabilize the active substance (A) in the rinsing medium (MR).

63. (Previously presented) The formulation according to claim 62, wherein the number of anionic charges developed in the rinsing medium (MR) by the vehicle (V) polymer to destabilize the active substance is at least 1% relative to the number of cationic surface charges of the active substance (A) in the medium (MR), and not more

than 200% relative to the number of cationic surface charges of the active substance

(A) in the medium (MR).

64. (Previously presented) The formulation according to claim 44, wherein the polymer constituting the vehicle (V) is a polymer selected from polymers derived from ethylenically unsaturated monomers, potentially anionic natural polysaccharides, potentially anionic or amphoteric substituted or modified polysaccharides.

65. (Currently amended) The formulation according to claim 44, wherein the polymer constituting the vehicle (V) is a polymer derived:

from at least one  $\alpha$ - $\beta$  monoethylenically unsaturated monomer which is neutral in the medium (MAV) and potentially anionic (HA) in the rinsing medium (MR) and

optionally at least one  $\alpha$ - $\beta$  monoethylenically unsaturated monomer which is cationic or potentially cationic (HC) in the medium (MAV), and

optionally at least one nonionic  $\alpha$ - $\beta$  monoethylenically unsaturated monomer which is hydrophilic or hydrophobic, preferably hydrophilic.

66. (Cancelled)

67. (Previously presented) The formulation according to claim 44, wherein the polymer constituting the vehicle (V) derives from one or more  $\alpha$ - $\beta$  monoethylenically unsaturated monomers and has an average molar mass of greater than 5 000 g/mol.

68. (Currently amended) The formulation according to claim 44 ~~41 to 24~~, wherein the polymer constituting the vehicle (V) is:

polyacrylic or polymethacrylic acids, alkali metal polyacrylates or polymethacrylates, with a molar mass by weight of from 100 000 to 1 000 000 g/mol, acrylic acid/DADMAC copolymers, with a molar ratio of 50/50 to 30/70, and with a molar mass by weight of from 70 000 to 350 000 g/mol acrylic acid/MAPTAC copolymers, with a molar ratio of 60/40 to 30/70, with a molar mass by weight of from 90 000 to 300 000 g/mol, acrylic acid/MAPTAC/linear C<sub>4</sub>-C<sub>18</sub> alkyl methacrylate terpolymers comprising 0.005 to 10% by mass of alkyl methacrylate, with an acrylic acid/MAPTAC molar ratio ranging from 60/40 to 30/70, and having a molar mass by weight of from 50 000 to 250 000 g/mol, or acrylic acid/dimethylaminoethyl methacrylate (DMAEMA) copolymers, with a molar ratio of 60/40 to 30/70, with a molar mass by weight of from 50 000 to 300 000 g/mol.

69. (Previously presented) The formulation according to claim 44, wherein the polymer constituting the vehicle (V) is a potentially anionic natural polysaccharide formed of nonionic monosaccharide units and of monosaccharide units which are neutral in the medium (MAV) and potentially anionic in the rinsing medium (MR), and are identical or different.

70. (Previously presented) The formulation according to claim 69, wherein said potentially anionic natural polysaccharide is a branched polysaccharide formed of a main chain comprising alike or different anhydrohexose units and of branches

comprising at least one anhydropentose or anhydrohexose unit which is neutral in the medium (MAV) and optionally potentially anionic in the rinsing medium (MR).

71. (Previously presented) The formulation according to claim 70, wherein said potentially anionic natural polysaccharide is a xanthan gum, a succinoglycan, a rhamsan, a gellan gum or a welan gum.

72. (Previously presented) The formulation according to claim 70, wherein said potentially anionic natural polysaccharide has a molar mass by weight of from 2 000 to 5 000 000.

73. (Cancelled)

74. (Cancelled)

75. (Cancelled)

76. (Previously presented) The formulation according to claim 72, wherein said substituted or modified polysaccharide has a molar mass by weight of from 2 000 to 5 000 000 g/mol.

77. (Previously presented) The formulation according to claim 72, wherein the native skeleton of said substituted or modified polysaccharide is a galactomannan.

78. (Previously presented) The formulation according to claim 72, wherein the native skeleton of said substituted or modified polysaccharide is:

carboxymethylgalactomannans, carboxymethylguars,  
carboxymethylhydroxypropylgalactomannans,  
carboxymethylhydroxypropylguars,



carboxymethyl-hydroxypropyltrimethylammonium chloride galactomannans,  
carboxymethyl-hydroxypropyltrimethylammonium chloride guar,  
carboxymethylhydroxypropyl-hydroxypropyltrimethylammonium chloride  
galactomannans, or carboxymethyl-hydroxypropyl-  
hydroxypropyltrimethylammonium chloride guar.

79. (Currently amended) ~~The formulation according to claim 44~~ A formulation (F)  
intended for use in an operation of rinsing (R) textile fiber articles (S) by means of an  
aqueous or aqueous-alcoholic medium (MR), said formulation (F) comprising at least  
one active substance (A) comprising at least one solid or liquid organic or  
organosilicon material in particulate form and a vehicle (V) comprising at least one  
organic polymer, capable of taking said active substance (A) to the surface of said  
textile fiber articles (S) in the rinsing operation (R), in the form:  
of a stable dispersion, with a pH of from 2 to 5, of said active substance (A) in an  
aqueous or aqueous-alcoholic medium (MAV) comprising said vehicle (V), or  
in a solid form obtained by drying said dispersion,  
the nature of the active substance (A), of the aqueous or aqueous-alcoholic medium  
(MAV), and of the vehicle (V) being such that the active substance (A)  
is insoluble in the medium (MAV),  
has an overall zero or cationic charge in the medium (MAV),  
is stabilized in the medium (MAV) by means of a cationic surfactant (TAC), it being  
possible for said cationic surfactant (TAC) to be wholly or partly replaced by a

nonionic surfactant when the material constituting the active substance (A) is  
intrinsically cationic or intrinsically potentially cationic in the medium (MAV), and  
remains insoluble in the rinsing medium (MR);  
the vehicle (V):  
is soluble or dispersible in the medium (MAV) and in the rinsing medium (MR),  
has an overall cationic or zero ionic charge in the medium (MAV), and  
at the pH of the rinsing operation in the rinsing medium (MR) is capable of developing  
anionic charges in sufficient quantity to destabilize the active substance (A) in the  
rinsing medium (MR), wherein the amount of vehicle (V) present in said formulation  
is from 0.01 to 5 parts by weight, per 100 parts by weight of active substance (A).

80. (Currently amended) ~~The formulation according to claim 44~~ A formulation (F)  
intended for use in an operation of rinsing (R) textile fiber articles (S) by means of an  
aqueous or aqueous-alcoholic medium (MR), said formulation (F) comprising at least  
one active substance (A) comprising at least one solid or liquid organic or  
organosilicon material in particulate form and a vehicle (V) comprising at least one  
organic polymer, capable of taking said active substance (A) to the surface of said  
textile fiber articles (S) in the rinsing operation (R), in the form:

of a stable dispersion, with a pH of from 2 to 5, of said active substance (A) in an  
aqueous or aqueous-alcoholic medium (MAV) comprising said vehicle (V), or  
in a solid form obtained by drying said dispersion,  
the nature of the active substance (A), of the aqueous or aqueous-alcoholic medium  
(MAV), and of the vehicle (V) being such that the active substance (A)

is insoluble in the medium (MAV),

has an overall zero or cationic charge in the medium (MAV),

is stabilized in the medium (MAV) by means of a cationic surfactant (TAC), it being

possible for said cationic surfactant (TAC) to be wholly or partly replaced by a

nonionic surfactant when the material constituting the active substance (A) is

intrinsically cationic or intrinsically potentially cationic in the medium (MAV), and

remains insoluble in the rinsing medium (MR);

the vehicle (V):

is soluble or dispersible in the medium (MAV) and in the rinsing medium (MR),

has an overall cationic or zero ionic charge in the medium (MAV), and

at the pH of the rinsing operation in the rinsing medium (MR) is capable of developing

anionic charges in sufficient quantity to destabilize the active substance (A) in the

rinsing medium (MR) , said formulation being in the form of an aqueous or aqueous-

alcoholic dispersion comprising per 100 parts of its weight:

from 0.01 to 40 parts, by dry weight of active substance (A),

from 0.01 to 50 parts, by dry weight of surfactant (TAC), and

from 0.001 to 4 parts, by dry weight of vehicle (V) polymer.

81. (Previously presented) The formulation according to claim 44, further comprising one or more customary constituents of cationic rinsing formulations, selected from the group consisting of cationic softeners, optical brighteners, color transfer inhibitors, water-soluble monovalent mineral salts, dyes, fragrances, foam suppressants, enzymes and bleaches.

82. (Previously presented) A process for treating textile fiber articles comprising the step of contacting said articles in the course of a rinsing operation in aqueous or aqueous-alcoholic medium with the rinsing formulation (F) as defined in claim 44, and recovering said rinsed articles.

83. (Previously presented) A process intended to enhance the antiwrinkle, easy-iron, soil release or abrasion resistance properties of textile fiber articles, comprising the steps of a) contacting said articles in the course of a rinsing operation in aqueous or aqueous-alcoholic medium with the rinsing formulation (F) as defined in claim 44, and b) in recovering said rinsed articles.

84. (Previously presented) The processes according to claim 82, wherein the formulation is employed in an amount, expressed in terms of dry matter, of from 0.001 to 5 g/l in the rinsing bath.

85. (New) The formulation according to claim 80, wherein the material constituting the active substance (A) is:

nonionic polyorganosiloxanes,

polyorganosiloxanes having at least one cationic or potentially cationic function in the medium (MAV),

amphoteric polyorganosiloxanes having at least one cationic or potentially cationic function in the medium (MAV) and at least one function which is neutral in the medium (MAV) and potentially anionic in the rinsing medium (MR), or

polyorganosiloxanes having at least one function which is neutral in the medium (MAV) and potentially anionic in the rinsing medium (MR).

86. (New) The formulation according to claim 80, wherein the active substance is:
- mono-, di- or triglycerides of C<sub>1</sub>-C<sub>30</sub> carboxylic acids or mixtures thereof,
- sugar esters, sucroglycerides,
- C<sub>1</sub>-C<sub>30</sub> alcohol esters of C<sub>1</sub>-C<sub>30</sub> carboxylic, C<sub>1</sub>-C<sub>30</sub> alcohol esters of C<sub>2</sub>-C<sub>30</sub> dicarboxylic acids,
- ethylene or propylene glycol monoesters or diesters of C<sub>1</sub>-C<sub>30</sub> carboxylic acids,
- propylene glycol C<sub>4</sub>-C<sub>20</sub> alkyl ethers,
- di(C<sub>8</sub>-C<sub>30</sub> alkyl) ethers, or
- organic waxes comprising alkyl chains containing 4 to 40 carbon atoms.
87. (New) The formulation according to claim 80, wherein the polymer constituting the vehicle (V) is any polymer which is soluble or dispersible in aqueous or aqueous-alcoholic medium with a pH of between 2 and 8 and which comprises at least one unit which is neutral in the medium (MAV) and potentially anionic (HA) in the rinsing medium (MR).
88. (New) The formulation according to claim 80, wherein the polymer constituting the vehicle (V) is:
- polyacrylic or polymethacrylic acids, alkali metal polyacrylates or polymethacrylates, with a molar mass by weight of from 100 000 to 1 000 000 g/mol,
- acrylic acid/DADMAC copolymers, with a molar ratio of 50/50 to 30/70, and with a molar mass by weight of from 70 000 to 350 000 g/mol

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**AMENDMENT**

acrylic acid/MAPTAC copolymers, with a molar ratio of 60/40 to 30/70, with a molar mass by weight of from 90 000 to 300 000 g/mol,

acrylic acid/MAPTAC/linear C<sub>4</sub>-C<sub>18</sub> alkyl methacrylate terpolymers comprising 0.005 to 10% by mass of alkyl methacrylate, with an acrylic acid/MAPTAC molar ratio ranging from 60/40 to 30/70, and having a molar mass by weight of from 50 000 to 250 000 g/mol, or

acrylic acid/dimethylaminoethyl methacrylate (DMAEMA) copolymers, with a molar ratio of 60/40 to 30/70, with a molar mass by weight of from 50 000 to 300 000 g/mol.